

REQUEST

For receiving Office use only
International Application No.
International Filing Date
· · · · · · · · · · · · · · · · · · ·
Name of receiving Office and "PCT International Application"

international application be processed according to the Patent Cooperation Treaty.	Name of receiving Off	ice and "PCT Inte	mational Application"
	Applicant's or agent's (if desired) (12 charact	file reference ers maximum) GF	R61-012
Box No. I TITLE OF INVENTION			
Processes for Designing Mass Separators and Separators and Ion Trans, Mass Spectrometers	Ion Traps, Method	ls for Producir	ng Mass Palyzing Samples
	on is also inventor		
Name and address: (Family name followed by given name; for a legal en The address must include postal code and name of country. The country of Box is the applicant's State (that is, country) of residence if no State of residen	the address indicated in this	Telephone No. 765-775-17	701
Griffin Analytical Technologies, Inc.		Facsimile No. 765-496-6489	
3000 Kent Avenue		Teleprinter No.	
West Lafayette, IN 47906		Teleprinter 140.	
•		Applicant's regis	tration No. with the Office
State (that is, country) of nationality: US	State (that is, country) US	of residence:	
This person is applicant for the purposes of: all designated States all designated the United States	ed States except States of America	the United States of America only	the States indicated in the Supplemental Box
Box No. III FURTHER APPLICANT(S) AND/OR (FURT	HER) INVENTOR(S)		
Name and address: (Family name followed by given name: for a legal en. The address must include postal code and name of country. The country of Box is the applicant's State (that is, country) of residence if no State of residenty James M. Wells 3636 Redondo Drive Lafayette, IN 47905	the address indicated in this	inventor is marked	t only t and inventor only (If this check-box d, do not fill in below.) tration No. with the Office
State (that is, country) of nationality: US	State (that is, country) US	of residence:	
This person is applicant for the purposes of: all designated the United States all designated the United States	ed States except States of America	the United States of America only	the States indicated in the Supplemental Box
Further applicants and/or (further) inventors are indicated of	on a continuation sheet.		
Box No. IV AGENT OR COMMON REPRESENTATIVE	; OR ADDRESS FOR	CORRESPOND	ENCE
The person identified below is hereby/has been appointed to act of the applicant(s) before the competent International Authorities	on behalf x as:	agent	common
Name and address: (Family name followed by given name: for a legal ent The address must include postal code and name of c	ity, full official designation. ountry.)	Telephone No. 509-624-42	276
Robert C. Hyta Wells, St. John, P.S.	Facsimile No		
601 W. 1st St., Suite 1300 Spokane, WA 99201		Teleprinter No.	
			N: 11 1 000
		46,791	on No. with the Office
Address for correspondence: Mark this check-box where space above is used instead to indicate a special address to	no agent or common rep which correspondence s	resentative is/has b hould be sent.	een appointed and the

Form PCT/RO/101 (first sheet) (March 2001; reprint July 2003)

See Notes to the request form

Sh	ect	No			2	

Continuation of Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)					
If none of the following sub-boxes is used, this sheet should not be included in the request.					
Name and address: (Family name followed by given name: for a legal enti- The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence Garth E. Patterson 802 S. Brackney Brookston, IN 47923	e address indicated in this				
	or a second seco				
State (that is, country) of nationality: US	State (that is, country) of residence: US				
This person is applicant for the purposes of: all designated the United St	States except the United States of America only the Supplemental Box				
Name and address: (Family name followed by given name: for a legal enti The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence	e address indicated in this				
State (that is, country) of nationality:	State (that is, country) of residence:				
This person is applicant for the purposes of: all designated all designated the United St	d States except the United States the States indicated in the supplemental Box				
Name and address: (Family name followed by given name: for a legal enti The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence	e address indicated in this				
State (that is, country) of nationality:	State (that is, country) of residence:				
	I States except ates of America only the States indicated in the Supplemental Box				
Name and address: (Family name followed by given name: for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office					
State (that is, country) of nationality:	State (that is, country) of residence:				
	I States except ates of America of America only the States indicated in the Supplemental Box				
Further applicants and/or (further) inventors are indicated of	on another continuation sheet.				

Box No. V DESIGNATION OF STATES

Mark the applicable check-boxes below; at least one must be marked.

The following designations are hereby made under Rule 4.9(a):

Regional Patent

- EA Eurasian Patent: AM Armenia, AZ Azerbaijan, BY Belarus, KG Kyrgyzstan, KZ Kazakhstan, MD Republic of Moldova, RU Russian Federation, TJ Tajikistan, TM Turkmenistan, and any other State which is a Contracting State of the Eurasian Patent Convention and of the PCT
- EP European Patent: AT Austria, BE Belgium. BG Bulgaria, CH & LI Switzerland and Liechtenstein, CY Cyprus, CZ Czech Republic. DE Germany. DK Denmark, EE Estonia, ES Spain. FI Finland, FR France, GB United Kingdom, GR Greece, HU Hungary. IE Ireland, IT Italy, LU Luxembourg, MC Monaco, NL Netherlands, PT Portugal, RO Romania, SE Sweden, SI Slovenia, SK Slovakia, TR Turkey, and any other State which is a Contracting State of the European Patent Convention and of the PCT

National Patent (if other kind of protection or treatment desired, specify on dotted line):

AE United Arab Emirates	HR Croatia	
🖊 AG Antigua and Barbuda	HU Hungary	PG Papua New Guinea
🛣 AL Albania		PH Philippines
AM Armenia	IL Israel	PL Poland
AT Austria	IN India	Transfer Programme Program
AU Australia		RO Romania
	■ JP Japan	
BA Bosnia and Herzegovina	KE Kenya	
BB Barbados	KG Kyrgyzstan	SC Seychelles
BG Bulgaria	KP Democratic People's Republic	SD Sudan
🗷 BR Brazil		
	KR Republic of Korea	
BZ Belize	KZ Kazakhstan	SK Slovakia
CA Canada	LC Saint Lucia	SL Sierra Leone
CH & LI Switzerland and Liechtenstein		SY Syrian Arab Republic
CN China		TJ Tajikistan
	LS Lesotho	TM Turkmenistan
CR Costa Rica		X TN Tunisia
CU Cuba		TR Turkey
Z CZ Czech Republic		TT Trinidad and Tobago
	MA Morocco	
	MD Republic of Moldova	TZ United Republic of Tanzania
M Dominica		■ UA Ukraine
DZ Algeria	MG Madagascar	■ UG Uganda
EC Ecuador	MK The former Yugoslav Republic of	US United States of America
EE Estonia	Macedonia	
ES Spain		UZ Uzbekistan
	MWMalawi	
GB United Kingdom	MX Mexico	VN Viet Nam
GD Grenada	MZ Mozambique	YU Serbia and Montenegro
■ GE Georgia	☑ NI Nicaragua	ZA South Africa
GH Ghana	NO Norway	ZM Zambia
M GM Gambia	■ NZ New Zealand	🔀 ZW Zimbabwe
Check-boxes below reserved for designating	States which have become party to the PCT	after issuance of this sheet:

Precautionary Designation Statement: In addition to the designations made above, the applicant also makes under Rule 4.9(b) all other designations which would be permitted under the PCT except any designation(s) indicated in the Supplemental Box as being excluded from the scope of this statement. The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit. (Confirmation (including fees) must reach the receiving Office within the 15-month time limit.)

☑ All PCT States □

Shee: No.	4	
JIIC'S: 11U.		

Box No. VI PRIORITY CLAIM						
The priority of the following earlier application(s) is hereby claimed:						
Filing date	Number Where earlier application			is:		
of earlier application (day/month/year)	of earlier application	national application: country or Member of WTO	regional application:* regional Office	international application: receiving Office		
item (1) 02 December 2002	60/430,223	us				
item (2)						
item (3)						
item (4)						
item (5)						
Further priority claims	are indicated in the Suppleme	ental Box.				
	ested to prepare and transmit filed with the Office which for					
X all items item	(1) item (2)	item (3) item	(4)	other, see Supplemental Box		
* Where the earlier applicati Industrial Property or one M	on is an ARIPO application, in Tember of the World Trade Or	ndicate at least one country ganization for which that e	party to the Paris Conve	ntion for the Protection of led (Rule 4.10(b)(ii)):		
•••••••••••••••••••••••••••••••••••••••						
Box No. VII INTERNAT	TIONAL SEARCHING AUT	THORITY				
	arching Authority (ISA) (if to the Authority chosen; the two			competent to carry out the		
ISA / US		• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •			
Request to use results of ea International Searching Auth Date (day/month/year)	· · · · · · · · · · · · · · · · · · ·			t by or requested from the		
Date (day/months/ear)	Numb	der Ceun	try (or regional Office)			
Box No. VIII DECLARA	TIONS		·			
The following declarations check-boxes below and indicate	are contained in Boxes Nos. ate in the right column the nun	VIII (i) to (v) (mark :he ap nber of each type of deci2rd	oplicable ation):	Number of declarations		
Box No. VIII (i)	Declaration as to the identit	ty of the inventor		:		
Box No. VIII (ii)	Declaration as to the applied date, to apply for and be go		e international filing	: 1		
Box No. VIII (iii)	Declaration as to the appli date, to claim the priority		ne international filing	. 1		
Box No. VIII (iv)	Declaration of inventorship United States of America)	p (only for the purposes of	the designation of the	: 1		
Box No. VIII (v)	Declaration as to non-preju	udicial disclosures or excep	otions to lack of novelty	:		

Box No. VIII (ii) DECLARATION: ENTITLEMENT TO APPLY FOR AND BE GRANTED A PATENT

The declaration must conform to the standardized wording provided for in Section 212; see Notes to Boxes Nos. VIII, VIII (i) to (v) (in general) and the specific Notes to Box No. VIII (ii). If this Box is not used, this sheet should not be included in the request.

Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent (Rules 4.17(ii) and 51bis.1(a)(ii)), in a case where the declaration under Rule 4.17(iv) is not appropriate:

Griffin Analytical Technologies, Inc. is entitled to apply for and be granted a patent by virtue of the following:

an assignment from:

WELLS, James Mitchell, 3636 Redondo Dr., Lafayette, IN 47905, United States of America, dated 09 February, 2004 (09.02.04); and

PATTERSON, Garth E., 802 S. Brackney, Brookston, IN 47923, United States of America, dated 09 February, 2004 (09.02.04).

This declaration is made for the purposes of all designations.

Box No. VIII (iii) DECLARATION: ENTITLEMENT TO CLAIM PRIORITY

The declaration must conform to the standardized wording provided for in Section 213: see Notes to Boxes Nos. VIII, VIII (i) to (v) (in general) and the specific Notes to Box No. VIII (iii). If this Box is not used, this sheet should not be included in the request.

Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application specified below, where the applicant is not the applicant who filed the earlier application or where the applicant's name has changed since the filing of the earlier application (Rules 4.17(iii) and 51bis.1(a)(iii)):

in relation to this international application

Griffin Analytical Technologies, Inc. is entitled to claim priority of earlier application no. 60/430,223 filed in the United States of America by virtue of the following:

an assignment from WELLS, James Mitchell and PATTERSON, Garth E., dated 09 February, 2004 (09.02.04).

This declaration is made for the purposes of all designations, except the designation of the United States of America.

Box No. VIII (iv) DECLARATION: INVENTORSHIP (only for the purposes of the designation of the United States of America)
The declaration must conform to the following standardized wording provided for in Section 214; see Notes:0 Boxes Nos. VIII, VIII (i) to (v)
(in general) and the specific Notes to Box No.VIII (iv). If this Box is not used, this sheet should not be included in the request.

Declaration of inventorship (Rules 4.17(iv) and 51bis.1(a)(iv)) for the purposes of the designation of the United States of America: I hereby declare that I believe I am the original, first and sole (if only one inventor is listed below) or joint (if more than one inventor is listed below) inventor of the subject matter which is claimed and for which a patent is sought. This declaration is directed to the international application of which it forms a part (if filing declaration with application). This declaration is directed to international application No. PCT/ US03/38587 (if furnishing declaration pursuant to Rule 26ter). I hereby declare that my residence, mailing address, and citizenship are as stated next to my name. I hereby state that I have reviewed and understand the contents of the above-identified international application, including the claims of said application. I have identified in the request of said application, in compliance with PCT Rule 4.10, any claim to foreign priority, and I have identified below, under the heading "Prior Applications," by application number, country or Member of the World Trade Organization, day, month and year of filing, any application for a patent or inventor's certificate filed in a country other than the United States of America, including any PCT international application designating at least one country other than the United States of America. having a filing date before that of the application on which foreign priority is claimed. Prior Applications: Serial No. 60/430,223, filed December 2, 2002, entitled Optimized Geometry for Ion Trap... I hereby acknowledge the duty to disclose information that is known by me to be material to patentability as defined by 37 C.F.R. § 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the PCT international filing date of the continuation-in-part application. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon. Name: James Mitchell Wells Residence: Lafayette, IN (city and either US state, if applicable, or country) Mailing Address: 3636 Redondo Drive Lafayette, IN 47905 Citizenship: US... Inventor's Signature.

(if not contained in the request, or if declaration is corrected or (of signature which is not contained in the request, or of the added under Rule 26ter after the filing of the international declaration that is corrected or added under Rule 26ter after the application. The signature must be that of the inventor, not that of filing of the international application) the agent) Name: Garth E. Patterson Residence: Brookston, IN (city and either US state, if applicable, or country) Mailing Address: 802 S. Brackney Brookston, IN 47923 Citizenship: .US. Inventor's Signature: (if not contained in the request, or if declaration is corrected or (of signature which is not contained in the request, or of the added under Rule 26ter after the filing of the international declaration that is corrected or added under Rule 26ter after the application. The signature must be that of the inventor, not that of filing of the international application) the agent)

This declaration is continued on the following sheet, "Continuation of Box No. VIII (iv)".

heet	Nο	8

Box No. IX CHECK LIST;	LANGUAGE (OF FILIN	NG		
This international application co (a) in paper form, the following sheets:		item(s)	ternational application is accompanied by the following (mark the applicable check-boxes below and indicate in following function of each item):	Number of items	
request (including			fee calculation sheet	:	
declaration sheets)	: 8	2. 🗶	original separate power of attorney	: 2	
description (excluding sequence listings and/or		3. 🛣	original general power of attorney	: 1	
tables related thereto)	: 17	4. 🗆	copy of general power of attorney; reference number,		
claims	: 10		if any:	:	
abstract	: 1	5.		:	
drawings	: 12	0. 🗀	priority document(s) identified in Box No. VI as item(s):	:	
Sub-total number of sheets sequence listings	: 48 :	7. 🗆			
tables related thereto (for both, actual number of	:	8. 🗆	separate indications concerning deposited microorganism or other biological material	:	
sheets if filed in paper form, whether or not also filed in computer readable form;		9. 🗆	sequence listings in computer readable form (indicate type and number of carriers)		
see (c) below)		(i)	copy submitted for the purposes of international search under Rule 13ter only (and not as part of the international application	n) :	
Total number of sheets (b) only in computer reada (Section 801(a)(i))	: 48 ble form	(ii)	(only where check-box (b)(i) or (c)(i) is marked in left column; additional copies including, where applicable, the copy for the purposes of international search under Rule 13ter	: :	
(i) sequence listings (ii) tables related thereto		(iii)	together with relevant statement as to the identity of the copy copies with the sequence listings mentioned in left column	or :	
(c) also in computer readal (Section 801(a)(ii))		10.	tables in computer readable form related to sequence listings (indicate type and number of carriers)		
(i) sequence listings (ii) tables related thereto		(i)	copy submitted for the purposes of international search under Section 802(b-quater) only (and not as part of the international application)	ıl .	
Type and number of carrier CD-ROM, CD-R or other) on	s (diskette, which are	(ii)	(only where check-box (b)(ii) or (c)(ii) is marked in left column) additional copies including, where applicable, the copy for the	· •	
contained the sequence listings:		purposes of international search under Section 802(b-quater) together with relevant statement as to the identity of the copy of copies with the tables mentioned in left column			
tables related thereto:					
Figure of the drawings which should accompany the abstract: 5 Language of filing of the international application: English					
Box No. X SIGNATURE O Next to each signature, indicate the nan	F APPLICAN ne of the person sign	Γ, AGEN	T OR COMMON REPRESENTATIVE e capacity in which the person signs (if such capacity is not obvious from reading	the request).	
Date: 3/15/04. HYTA, Robert C. Agent for Applicants					
		— For r	eceiving Office use only		
Date of actual receipt of the international application:	purported		2. Draw	Ü	
3. Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application:					
4. Date of timely receipt of the required not received corrections under PCT Article 11(2):					
5. International Searching Authority (if two or more are competent): ISA / 6. Transmittal of search copy delayed until search fee is paid					
For International Bureau use only					
Date of receipt of the record cop by the International Bureau:					